

HEAVY DUTY SPLIT MOLDS



These molds are reusable heavy duty split molds for forming concrete compression test specimens in the field or the laboratory. The molds have a 1/4" wall thickness with a vertical opening along one side that is held together by two swivel clamps that loosen to allow easy specimen removal. The mold is held firmly to a base plate by two threaded studs and wing nuts.

MODELS	DESCRIPTION	STANDARDS
C2053	SPLIT MOLD, 3" X 6"	ASTM C-31, C-39, C-192, C470 / AASHTO T-22, T-23, T-126, T-198
C2054	SPLIT MOLD, 4" X 8"	
C5031	SPLIT MOLD, 6" X 12"	
C5033	SPLIT MOLD, 6" X 12", W/ TOP	

SINGLE USE CYLINDER MOLDS

These are single use molds for making cylindrical concrete test specimens in the field or laboratory. The cardboard molds have firmly attached steel bottoms and are waxed on the inside to retain moisture and for ease of stripping. The plastic molds also retain moisture and do not adhere to the specimen. The C5097 Econo-O-Cure Field Curing System uses a thermostatically controlled heater with air circulating fan to assure consistent and evenly distributed heat. The unit holds up to eight 6" x 12" concrete test cylinders and is constructed from advanced polymers and vinyls with 1/2" cooler foam. The plastic molds are easily stripped using the C5088 stripping tool.



C5086



C5081



C5097



C2078



C5122



C5123



C5089

CARDBOARD

MODELS	DIMENSIONS	QTY	STANDARDS
C2062	2" X 4"	100	ASTM C-31, C-39, C-192, C470 / AASHTO T-22, T-23, T-126, T-198
C2063	3" X 6"	100	
C2064	4" X 8"	100	
C5081	6" X 12"	24	

LIDS	DESCRIPTION
C5082A	FLAT LID / LIPPED, FOR C5081
C5082B	DOMED LID / SMALL LIP, FOR C5081
C5082C	FLAT LID / SMALL LIP, FOR C5081

PLASTIC

MODELS	DIMENSIONS	QTY	STANDARDS
C2070	2" X 4"	75	ASTM C-31, C-39, C-192, C470 / AASHTO T-22, T-23, T-126, T-198
C2071	3" X 6"	80	
C2075	4" X 8"	36	
C5086	6" X 12"	20	

LIDS	DESCRIPTION
C2069	FLAT LID, FOR C2070
C2072	FLAT LID, FOR C2071
C2076	FLAT LID, FOR C2075
C5082	DOMED LID, FOR C5086
C5082D	HIGH DOMED LID / LIPPED, FOR C5086

ACCESSORIES	DESCRIPTION
C2078	GROUT SAMPLE BOX, 25/PKG
C5097	ECON-O-CURE, FIELD CURING SYSTEM
C5088	STRIPPING TOOL
C5089	6" X 12" CYLINDER TEST TRANSPORT RACK
C5122	CYLINDER CARRIER
C5123	LIFTING HANDLE
C5127	CYLINDER WRAP, 4"
C5128	CYLINDER WRAP, 6"

COMPACTION MOLDS



These compaction molds are available in 4" and 6" diameter models. The 4" ID. molds are 4.584" high and 1/30 cu. ft. which are available in plain, split and tapered versions. The 6" ID. molds are 4.584" high and 1/13.33 cu. ft. which are available in plain and split versions. These molds are used along with the tampers, that are listed on page 133, to determine the relationship between the

moisture content and the density of compacted soils. This is also known as the proctor test. Soil samples are easily removed from split and tapered molds. Plain mold samples are easily removed using a **S3415** core ejector. The molds are furnished complete with base, tie down rods and wing nuts, collar and mold body. They are constructed from cold-rolled steel and plated for rust resistance.

MODELS	DESCRIPTION	SIZE	STANDARDS
S3111	COMPACTION MOLD, PLAIN	4"	ASTM D-558, D-559, D-560, D-698, D-1157, D-1158, AASHTO T-99, T-134, T-135, T-136, T-180
S3112	COMPACTION MOLD, SPLIT		
S3113	COMPACTION MOLD, TAPERED		
S3135	COMPACTION MOLD, PLAIN	6"	
S3136	COMPACTION MOLD, SPLIT		

ACCESSORIES	DESCRIPTION
S3415	CORE EJECTOR, 2",3",4" & 6"

TAMPERS



These tampers are used along with the proctor molds to prepare moisture density samples for the proctor test. There are three types of tampers, 5^{-1/2} lb with a 12" drop, 10 lb with an 18" drop, and 5^{-1/2} lb with an 18" drop. The tamper weights have a 2" diameter face. The guide tubes have vents to prevent any air pressure from developing and all parts are plated to prevent rusting. The **S3143** tamper is not required by ASTM or AASHTO. The U.S. Army Corps of Engineers Tamper is guided on a shaft instead of a sleeve. The length of the drop is slightly adjustable. The foot assembly has a recoil mechanism which reduces the impact and the fatigue on parts.

MODELS	DESCRIPTION	STANDARDS
S3141	TAMPER, 5-1/2 LB, 12" DROP	ASTM D-558, D-560, D-698, D-1157 AASHTO T-99, T-134, T-135, T-136, T-180
S3142	TAMPER, 10 LB, 18" DROP	
S3143	TAMPER, 5-1/2 LB, 18" DROP	
S3154	C.O.E. TAMPER, 5-1/2 LB, 12" DROP	
S3155	C.O.E. TAMPER, 10 LB, 18" DROP	

RELATIVE DENSITY APPARATUS

The relative density apparatus is used with cohesionless free-draining soils since this type of soil does not produce a satisfactory moisture-density curve or maximum density with traditional Proctor moisture-density impact compaction tests. Maximum density is determined by placing the soil in a mold and then vibrating the specimen under a surcharge load and weighing. Minimum index density is determined by loose placement in the molds using a scoop. The Vibratory tables which are semi-noiseless have a net weight over 100 lb. with a frequency of 3600 vibrations/minute and amplitude variable between .002" and .025" under 250 lb load. The table has a cushioned steel 30" x 30" deck which is activated by an electromagnetic vibrator. The mold sets consist of cylindrical metal mold, guide sleeve with camp, base plate, surcharge weight and a base plate handle. The Gauge set consists of a **G3104** dial .001 x 2", holder and bar 3 x 12" x 1/8".



MODELS	DESCRIPTION	POWER
S3341S	RELATIVE DENSITY APPARATUS	110V / 60Hz
S3342S		220V / 50Hz

ACCESSORIES	DESCRIPTION
S3331	MOLDS SET, 0.1 FT ³
S3332	MOLD ONLY, 0.1 FT ³
S3333	MOLDS SET, 0.5 FT ³
S3334	MOLD ONLY, 0.5 FT ³
S3335	GAUGE SET
S3338	VIBRATORY TABLE, 30" X 30" 230V / 60 Hz
S3339	VIBRATORY TABLE, 30" X 30" 220V / 50 Hz

